

# Patent [19]

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## [54] CATALYST FOR OLEFIN POLYMERIZATION AND POLYMERIZATION METHOD

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## [57] ABSTRACT

**PROBLEM TO BE SOLVED:** To obtain a catalyst having an industrially high polymerization activities, and capable of simultaneously satisfying the effect of producing a polyolefin having a high molecular weight and a narrow molecular weight distribution, and the effect of producing only a small amount of by-products such as low molecular weight 1-alkenes and low molecular weight alkanes, and further to provide a method for producing an olefin by using the catalyst.

**SOLUTION:** This catalyst for olefin polymerization consists of a supported chromium oxide catalyst supported on an inorganic oxide carrier and fired in a nonreducing atmosphere in combination with a specific organoaluminum compound and a specified organic compound. The method for polymerizing the olefin comprises using the catalyst.

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